Application No.: 10/564,469

AMENDMENTS TO THE CLAIMS

Please enter the following amendments:

1. (Currently Amended) A fuel cell system comprising: a fuel cell; fuel gas supply

means for supplying a fuel gas to an anode of said fuel cell; oxidant gas supply means for

supplying an oxidant gas to a cathode of said fuel cell; inert gas supply means for supplying an

inert gas to the anode and/or cathode of said fuel cell; and means for measuring a pressure Pa in

an inlet-side flow path leading to the anode of said fuel cell and a pressure Pc in an inlet-side

flow path leading to the cathode,

said fuel cell being subjected to a purge operation of replacing the fuel gas and/or oxidant

gas in said fuel cell with the inert gas supplied from said inert gas supply means when said fuel

cell is started up or shut down,

wherein said fuel cell system further comprises means for variably controlling the flow

rate of the inert gas supplied to said fuel cell based on the values of Pa and Pc during the purge

operation of said fuel cell, and

wherein the differential pressure  $\Delta P$  is defined as  $\Delta P = Pa - Pc$ , and the differential

pressure during operation  $\Delta Po$  and the differential pressure during the purge operation  $\Delta Pp$ 

always satisfy the relations:  $0 < \Delta Po \times \Delta Pp$  and  $|\Delta Pp| \le |\Delta Po|$ .

2-3. (Canceled)

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4. (Previously Presented) The fuel cell system in accordance with claim 1, further comprising means for changing the internal diameter of an outlet-side flow path of an exhaust gas from said fuel cell at least in stages, and means for changing said internal diameter at least in stages based on the values of Pa and Pc during the purge operation of said fuel cell.